VEC120S

VECTOR®
The Freedom of POWER

3,000,000 CANDLE POWER SPOTLIGHT

CORDED·CORDLESS·RECHARGEABLE

WITH BUILT-IN CCFL AREA LIGHT

OWNER'S MANUAL & WARRANTY INFORMATION

IMPORTANT SAFETY INFORMATION, SAVE THESE INSTRUCTIONS

THIS MANUAL CONTAINS IMPORTANT INFORMATION REGARDING THE OPERATION AND WARRANTY OF THIS PRODUCT. PLEASE READ CAREFULLY BEFORE USE AND RETAIN FOR FUTURE REFERENCE.

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Tel: (954) 584-4446 Fax: (954) 584-5556 Toll Free: (866) 584-5504
www.vectormfg.com

IMPORTANT SAFETY INSTRUCTIONS

WARNINGS: Contains non-spillable sealed lead acid batteries. They must be recycled or disposed of properly.

DO NOT dispose of batteries in fire, as this may result in an explosion. **DO NOT** open battery or short circuit, as this may cause the battery to leak or get hot causing personal injury. Any disposal questions call toll-free (887) 288-7722.

Please read Instruction Manual completely for all safety and warning instructions.

CAUTIONS: USE ONLY WITH AC AND DC CHARGING ADAPTERS THAT ARE PROVIDED WITH UNIT. PLUG IN THE CHARGING ADAPTER AT THE SPOTLIGHT FIRST, THEN PLUG INTO THE CHARGING SOURCE

DURING RECHARGE: DO NOT OVERCHARGE: CHARGE UNTIL GREEN BATTERY STATUS LED LIGHTS OR FLASHES

DO NOT CHARGE FOR MORE THAN 24 HOURS USING AC CHARGING ADAPTER

a) First use - typically charge time is 8-10 hours

b) Charge after first use - typically charge time is 10-12 hours.

c) If unit is not used for two months, typical charge time is 4 hours.

After recharge, disconnect charging adapter and wait 5 minutes before use.

1. Do not substitute power cords or charging adapters. Only charge with supplied AC and DC charging adapters. Charging Adapters for this unit supply 12 volts DC.
2. Do not submerge in water. This unit is not waterproof - it is water resistant.
3. Keep children away from spotlight. This is not a toy!
4. Lens gets very hot when spotlight is operating. Do not touch lens while operating.
5. Keep combustibles away from spotlight lens - extreme heat can cause fires.
6. Keep sharp objects away from lens - it is glass and it can break.
7. Do not drop or throw spotlight, it contains glass and a sealed lead acid battery.
8. Dispose of unusable batteries in a responsible manner. See battery disposal section.
9. Do not crush, cut, pull or expose charging adapter cords to extreme heat.
10. Keep charging adapter cords away from sharp edges.
11. Position charge adapter cords so that they do not become entangled or become a safety hazard.
12. Do not shine spotlight in eyes.

TWO YEAR LIMITED WARRANTY REGISTRATION FORM

This limited warranty program is the only one that applies to this product, and it sets forth all the responsibilities of Vector Manufacturing, Ltd., regarding this product. There is no other warranty, other than those described herein.

This Vector Manufacturing, Ltd. product is warranted, to the original purchaser only, to be free of defects in materials and workmanship for two years from the date of purchase without additional charge. The warranty does not extend to subsequent purchasers or users. Vector Manufacturing, Ltd. will not be responsible for any amount of damage in excess of the retail purchase price of the product under any circumstances. Incidental and consequential damages are specifically excluded from coverage under this warranty.

This product is not intended for commercial use. This warranty does not apply to accessories or damage to units from misuse or incorrect installation. Misuse includes wiring or connecting to improper polarity power sources.

RETURN/REPAIR POLICY: Defective products, other than accessories, may be returned postage prepaid to Vector Manufacturing. Any defective product, other than accessories, that is returned to Vector Manufacturing within 30 days of the date of purchase will be replaced free of charge. If such a product is returned more than 30 days but less than two years from the purchase date, Vector Manufacturing will repair the unit or, at its option, replace it free of charge. If the unit is repaired, new or reconditioned replacement parts may be used, at Vector Manufacturing's option. A unit may be replaced with a new or reconditioned unit of the same or comparable design. The repaired or replaced unit will then be warranted under the terms of the remainder of the warranty period. The customer is responsible for the shipping charges on all returned items after 30 days. During the warranty period, Vector Manufacturing, Ltd. will be responsible for the return shipping charges.

LIMITATIONS: This warranty does not cover accessories, bulbs, fuses and batteries, defects resulting from normal wear and tear (including chips, scratches, abrasions, discoloration or fading due to usage or exposure to sunlight), accidents, damage during shipping to our service facility, alterations, unauthorized use or repair, neglect, misuse, abuse, failure to follow instructions for care and maintenance, fire, flood and Acts of God.

If your problem is not covered by this warranty, call our Technical Support Department at (954) 584-4446 or toll free at 866-584-5505 for general repair information and charges if applicable. You may also contact us through our website at www.vectormfg.com.

STATE LAW RIGHTS: This warranty gives you specific legal rights. Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the exclusions or limitations stated herein may not apply. This warranty gives the purchaser specific legal rights; other rights, which vary from state to state, may apply.

TO REQUEST WARRANTY SERVICE FOR THIS PRODUCT: Contact Vector Manufacturing Technical Support by telephone, fax or mail. We suggest that you keep the original packaging in case you need to ship the unit. When returning a product, include your name, address, phone number, dated sales receipt (or copy) and a description of the reason for return and product serial number. After repairing or replacing the unit, we will make every effort to return it to you within four weeks.

WARRANTY ACTIVATION: Please complete Warranty Activation Card and mail to Vector Manufacturing. Enter "VEC223" as Model. All Vector Manufacturing, Ltd. products must be registered within (30) days of purchase to activate this warranty. Mail the completed registration form, along with a copy of the original sales receipt to:

ATTN.: CUSTOMER SERVICE / VECTOR MANUFACTURING, Ltd.
4140 SW 28th Way, Ft. Lauderdale, FL 33312
PH: 954-584-4446 • TOLL FREE: 866-584-5504 • Fax: 954-584-5556.
You may also contact us at our web site www.vectormfg.com

☐ Please activate my Limited Warranty for Model VEC223
I have enclosed a copy of the original sales receipt.

Name . . . . . .
Street Address . . . . . .
City . . . . . .State . . . . . .Zip code . . . . . .
Phone . . . . . .Fax . . . . . .
E-mail . . . . . .

Item Purchased . . . . . .
Date of Purchase . . . . . .Store Where Purchased . . . . . .
UPC Number from package (12 digits) . . . . . .

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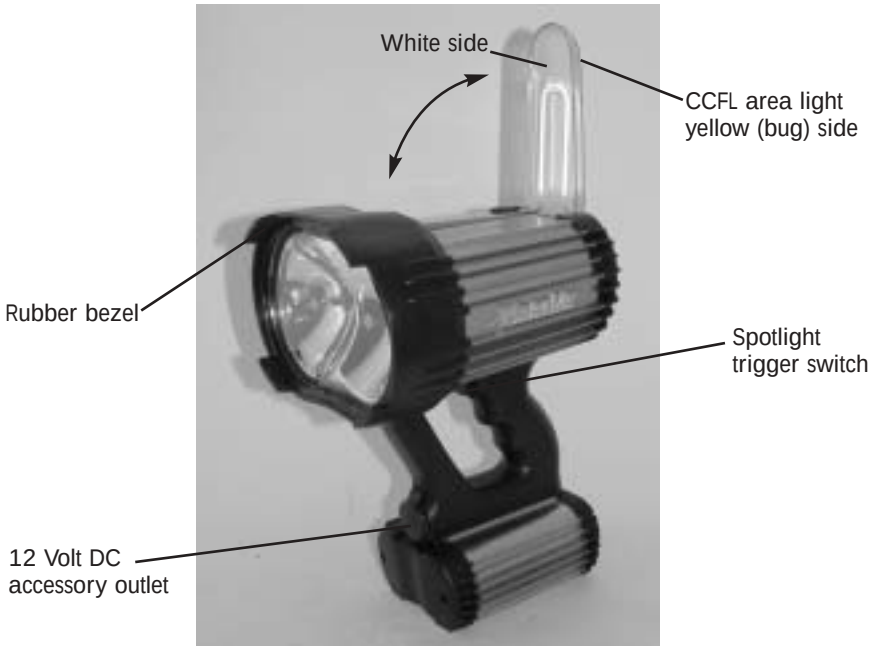
1. INTRODUCTION

Congratulations on purchasing VectorLite TM Model VEC120, an advanced design dual- bulb 3.000,000 candlepower spotlight and long lasting, soft Cold Cathode Fluorescent Lamp (CCFL) area / bug light. It uses two powerful proven-technology rechargeable, non-spillable sealed lead acid batteries that allow for years of dependable use, recharge after recharge. It was designed from the ground up to be the most versatile and practical light for travel, camping, picnicking, tailgate parties and boating. The spotlight gives you the kind of light you need, when and where you need it.

Extremely rugged construction protects the unit from damage from most vibration and shock. It is water and dust resistant. See Figure 1.



The CCFL assembly flips up to provide a white area light, down to provide a yellow bug light. A 12 Volt accessory socket allows powering any DC appliance that does not exceed 10 amps. To power an appliance, flip up the accessory outlet cover and insert the DC plug. After use close the cover.

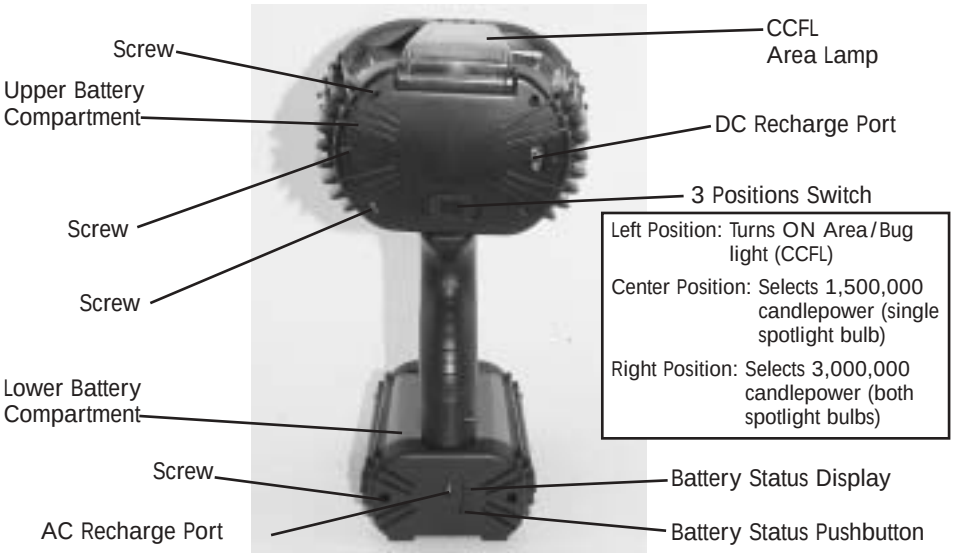
Two recharge adapters are supplied with the spotlight. It can be recharged from any 110 / 120 volt 60 Hz AC receptacle. It can also be recharged and powered from a DC cigarette lighter type 12 volt DC socket (accessory socket). This permits recharge flexibility for use around home, business or in the field. 12 volt DC power is available from most vehicles, boats, jump starters and portable battery packs. Vector has a variety of portable power products that would make ideal companions.

2. ADDITIONAL FEATURES

- Two powerful, prefocused, replaceable quartz halogen bulbs in spotlight.
- CCFL Area / Bug Light provides up to 48 hours of continuous operation.
- CCFL Area / Bug light flips up for good area light distribution; down for bug light use.
- Three-position slide switch selects single or dual spotlight, or CCFL operation.
- Trigger Switch operates spotlight.
- Rubber safety guard (bezel) around lens protects spotlight.
- Safety end caps protect upper and lower battery compartments
- Comfortable pistol grip.
- LED lights while battery is charging.
- UL approved AC / DC Recharge Adapter
- Fused DC Recharge / Power Cord

3. OPERATION

The Trigger Switch is squeezed to turn on the spotlight ON. Release the trigger switch to turn OFF the spotlight. Selection of single bulb or dual bulb spotlight or CCFL area light is controlled by a three-position slide switch on the rear of the unit. (see Figure 2)



Left Position: Turns ON Area / Bug light (CCFL)

Center Position: Selects 1,500,000 candlepower (single spotlight bulb)

Right Position: Selects 3,000,000 candlepower (both spotlight bulbs)

Note that spotlight ON / OFF is controlled by the Trigger Switch.

The CCFL Area Light can continuously operate up to 48 hours on a full battery charge.

Figure 2 shows locations of the Three Position Switch, AC Recharge Port, DC Recharge Port, Battery Status Display and Battery Status Display Pushbutton.

WARNINGS: DO NOT ALLOW BARE WIRES OR CONNECTORS TO CONTACT EACH OTHER DANGEROUS SPARKING CAN OCCUR - NOTE WHICH WIRES ARE ON THE BATTERY TERMINALS

6. Note polarity of battery. Note which wire is on which terminal.
7. Disconnect the wires from the battery and set the battery aside.
8. Connect the replacement battery, making sure the correct wires are on the new battery terminals. Make sure POS (+) is red and NEG (-) is black.

CAUTION: Incorrectly connected wires will not allow the spotlight to operate or recharge. Incorrect battery polarity will damage the circuits inside the spotlight. Double check battery polarity before reassembly!

9. Replace battery compartment end cap. Make sure wires are not crushed.
10. Replace four Phillips screws in battery compartment cover. Do not over tighten.

The lower battery pack can be replaced by following the upper battery replacement procedure except there are only two Phillips screws to be removed.

After the lower battery is replaced and the lower end cap secured, recharge for 10-12 hours using the AC Recharge Adapter before using the spotlight.

SAFE BATTERY DISPOSAL

Contains a maintenance-free, sealed, non-spillable, lead acid batteries, which must be disposed of properly. Recycling is required, contact your local authority for information. Failure to comply with local, state and federal regulations can result in fines, or imprisonment.

Battery Disposal Warnings:

- Do not dispose of a battery in fire as this may result in an Explosion.
- Before disposing of the battery, protect exposed terminals with heavy-duty electrical tape to prevent shorting (shorting can result in injury or fire).
- Do not expose batteries to fire or intense heat as they may explode.
- For more information on recycling these batteries, call toll-free 877-288-7722.

7. SPECIFICATIONS

Spotlight Bulb . . . . . .12 volt, H3 series Vector Part No. VEC190

Battery . . . . . .Two maintenance free, sealed lead acid, 6 volt, 6.0 Amp Hour Vector Part No. VEC191

Weight . . . . . .(((PLEASE WEIGH))))

Length . . . . . .

Width . . . . . .

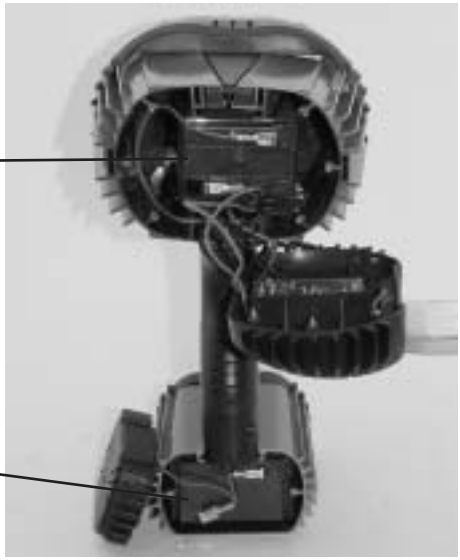
Height . . . . . .

14. Place the reflector in position in the body of the spotlight.
15. Replace the rubber ring in the groove around the perimeter of the reflector.
16. Replace glass and Retainer so that the screw holes are aligned.
17. Secure Retainer with two Phillips screws.
18. Replace Rubber Bezel by sliding forward to the front of the spotlight.
19. Operate switchs to ensure proper operation of spotlight.

REPLACING THE BATTERIES

The rechargeable sealed Lead Acid batteries have a life of several years, if recharged promptly after each use. When the fully charged batteries only provide about 10 minutes or less of spotlight operation, they should be replaced with new batteries. To replace the batteries, you will need the Phillips type screwdriver and replacement batteries Vector Part VEC191. The batteries are in compartments referred to as upper and lower. Because of spotlight construction, there are two procedures; upper battery replacement and lower battery replacement. Both batteries are wired in series so they should be replaced at the same time. DO NOT MIX BATTERY TYPES OR NEW AND OLD BATTERIES.

See Figure 5



The upper battery can be replaced by doing the following:

1. Remove the six Phillips screws (clockwise) that fasten the plastic end cap. See Figure2 for locations.
3. Remove the upper end cap from the body.
4. Note the battery can slide out of the body so keep the body level.
5. The battery terminals are attached to two wires. These wires must be disconnected from the terminals of the battery.

4. CHARGING THE VECTORLITE USING THE AC RECHARGE ADAPTER

NOTE: This unit is shipped in a partially charged state. Initially charge unit using the AC charger. To check the battery level, press the Battery Status Pushbutton (Figure 2). Charge until Battery Status Displays green LED lights when the Battery Status Display Pushbutton is pressed. Charge after each use. See Figure3A AC/DC Recharge Adapter.

IMPORTANT: DO NOT TURN ON ANY LAMPS OR OPERATE ANY DC APPLIANCES THROUGH THE SPOTLIGHTS ACCESSORY OUTLET WHEN THE AC/DC RECHARGE ADAPTER IS CHARGING THE UNIT.

1. Make sure all lamps and connected appliances are turned OFF
2. Locate the Recharge Port on the rear of the spotlight (see figure 2).
3. Connect the AC charger to a 110 VAC, 60 Hz power source.
4. Plug the AC charger's barrel connecter into the AC Recharge Port.
5. Recharge for 10 hours maximum or until the green LED lights when the battery Status Display Pushbutton is pressed.
6. After recharge, disconnect the Adapter from the external charging source then disconnect barrel connector from the Recharge Port.
7. After AC recharge, wait 5 minutes before using spotlight.

5. CHARGING AND POWERING THE VECTORLITE USING THE DC RECHARGE ADAPTER

The VEC120 can be simultaneously charged and operated from a12 volt DC source. Make sure the 12 volt source can supply at ;least 15 amperes of current if the spotlight is to be operated while the batteries are being charged.

To check the battery level, press the Battery Status Pushbutton (Figure 2). Charge until Battery Status Display?s green LED lights when the Battery Status Display Pushbutton is pressed. Charge after each use. See Figure3B DC/DC Recharge Adapter.

1. Locate the DC Recharge Port on the rear of the spotlight (see Figure 2).
2. Connect the DC charger to a 12 volt DC source that can supply at least 15 amps of current.
3. Plug the DC charger's polarized connecter into the DC Recharge Port.
4. Recharge for 10-12 hours maximum or until the green LED lights when the battery Status Display Pushbutton is pressed.
5. After recharge, disconnect the Adapter from the external charging/power source then disconnect the connector from the DC Recharge Port.

Note that some vehicles must have the ignition switch on to power the vehicles accessory outlet.

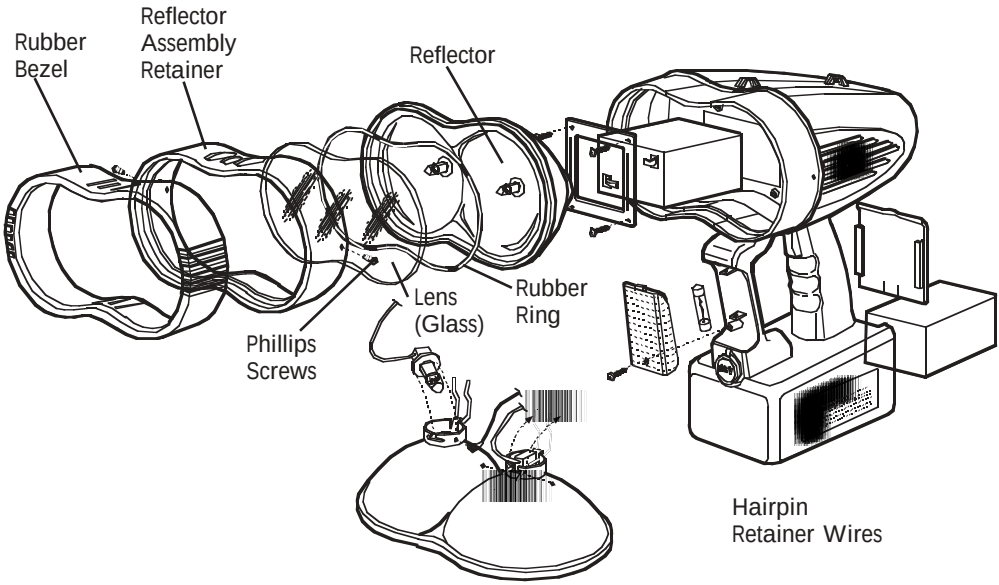
WARNING: NEVER SIMULTANEOUSLY CONNECT AC/DC AND DC/DC CHARGERS TO SPOTLIGHT.

6. PERIODIC MAINTENANCE

All batteries lose charge over time, especially when they are warm. AC recharge is recommended every two months, when not in frequent use. Use the AC/DC Recharge Adapter and charge for the recommended time. If the unit has dirt on it, gently clean the outer surfaces of the spotlight unit with a soft cloth moistened with a mild solution of water and detergent. Periodically inspect the condition of recharge adapters, connectors, and wires. Replace any components that may have become worn or broken.

7. PARTS REPLACEMENT

Several parts are replaceable by users. The quartz halogen bulb and two sealed lead acid batteries are available through Vector Manufacturing. A substitute 12 volt H3 55 watt bulb may be used instead of a Vector bulb. These can also be purchased from popular automotive parts suppliers nationwide. Vector Manufacturing's Technical Support Department for replacement parts and any additional information that you may need. They may be reached at (954) 584-4446 or toll free at (866) 584-5504.



To replace either or both H3 type 12 volt bulbs, you will need a small Phillips type screwdriver and a replacement bulb (or bulbs) Vector Part VEC190. Bulb life can be shortened by installing a bulb with dirt or fingerprints on it. The bulb can be wiped clean with cloth moistened with alcohol. During bulb installation, avoid touching the glass part of the bulb. See Figures 4, and details 4A and 4B. Note which bulb is burned out.

1. Disconnect the unit from any charging adapters
2. Pull the rubber bezel towards the front of the spotlight to reveal two small Phillips screws in the wide Reflector Assembly Retainer. The screws are on opposite sides of the retainer.
3. Using the screwdriver, remove (counter-clockwise) the two screws. Set them aside.
4. Lift off the Retainer, glass lens and rubber ring and set them aside.
5. Carefully remove the dual reflector and bulb assembly. See figures 4.
6. Disconnect the bulb wire from the red power wire and set the burned out bulb aside.
7. Unsnap the hairpin retaining wires from the reflector's flange (see details 4A and 4B)
8. Using the screwdriver, loosen the retaining screw to remove the bulb from the reflector (no need to completely remove this screw).
9. Lift out the bulb and the attached wire.
10. Insert the replacement bulb into the reflector's flange.
11. Put back and secure the hairpin retaining wires.
12. Connect the white bulb power wire to the red power wire.
13. Tighten the retaining screw on the flange.